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 Facial keys to orthodontic diagnosis and treatment planning—part II (Arnett and Bergman). 1993;103:395-411 (Special article)
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 A tensor analysis to evaluate the effect of high-pull headgear on Class II malocclusions (Ngan et al). 1993;103:267-79
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- Facial keys to orthodontic diagnosis and treatment planning—part II (Arnett and Bergman). 1993;103:395-411 (Special article)
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- A severe mandibular discrepancy case (Steciwi). 1993;103:1-7 (Case rep.)
- Stability of mandibular constriction with a symphyseal osteotomy (Alexander et al). 1993;103:15-23
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- Jacob Amos Salzmann 1902-1992 (Kuftinec). 1993;103:190 (In memoriam)
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- Margaret Hotz, January 24, 1911–June 14, 1992 (Leighton). 1993;103:82 (In memoriam)
- Robert Ara Goshgarian, 1922-1992 (Sturman). 1993;103:561 (In memoriam)
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Tooth extraction

Class II elastics and extractions and temporomandibular disorders: a longitudinal prospective study (O'Reilly et al). 1993;103:459-63

A comparison of the rate of space closure using a nickel-titanium spring and an elastic module: a clinical study (Samuels et al). 1993;103:464-7

Effects of orthodontics on the facial profile: a comparison of changes during nonextraction and four premolar extraction treatment (Young and Smith). 1993;103:452-8

Nonextraction treatment of a Class II, Division 1 malocclusion (Rape and Jacobson). 1993;103:99-106 (Case rep.)

Nonsurgical treatment for a Class III dental relationship: a case report (Popp et al). 1993;103:203-11 (Case rep.)

Tooth loss

An American Board of Orthodontics case report: the nonsurgical orthodontic correction of a Class III malocclusion (Frank). 1993;103:107-14 (Case rep.)

Tooth movement

Facial keys to orthodontic diagnosis and treatment planning. Part I (Arnett and Bergman). 1993;103:299-312 (Special article)

Normalization of incisor position after adenoidectomy (Linder-Aronson et al). 1993;103:412-27

Periodontal tissue response to orthodontic movement of teeth with infrabony pockets (Wennström et al). 1993;103:313-9

Recent advances in understanding mechanically induced bone remodeling and the relevance to orthodontic theory and practice (Sandy et al). 1993;103:212-22

Serum and alveolar bone phosphatase changes reflect bone turnover during orthodontic tooth movement (Keeling et al). 1993;103:320-6

Tooth root

Maxillary incisor crown-root relationships in different Angle malocclusions (Harris et al). 1993;103:48-53

Torque

Moments with the edgewise appliance: incisor torque control (Isaacson et al). 1993;103:428-38

Trauma; see Wounds and injuries**Twins**

Treatment of identical twins with Frankel and Herbst appliances: a comparison of results (Pangrazio-Kulbersh and Berger). 1993;103:131-7

The use of twins in dentofacial genetic research (Lauweryns et al). 1993;103:33-8

U**Ultrasonics**

Orthodontic bracket removal using conventional and ultrasonic debonding techniques, enamel loss, and time requirements (Krell et al). 1993;103:258-66

V**Vermilion**

Change in lip vermilion height during orthodontic treatment (Perkins and Staley). 1993;103:147-54

Viewpoint

Viewpoint. 1993;103:67-70, 365-7

Vignettes

Arthur A Dugoni: ambition, education, and a desire to serve. 1993;103:79-80

H. Garland Hershey. 1993;103:77-9

W**Word processing**

Macro magic to speed word processing (Abelson). 1993;103:563-6 (Ortho bytes)

Part 4. A word processor-based communications system: configuring a notebook as a WordPerfect data base (Abelson). 1993;103:85-9 (Ortho bytes)

WordPerfect

Part 4. A word processor-based communications system: configuring a notebook as a WordPerfect data base (Abelson). 1993;103:85-9 (Ortho bytes)

Wounds and injuries

Traumatic root resorption in dentine-immunized mice (Wheeler and Stroup). 1993;103:352-7

